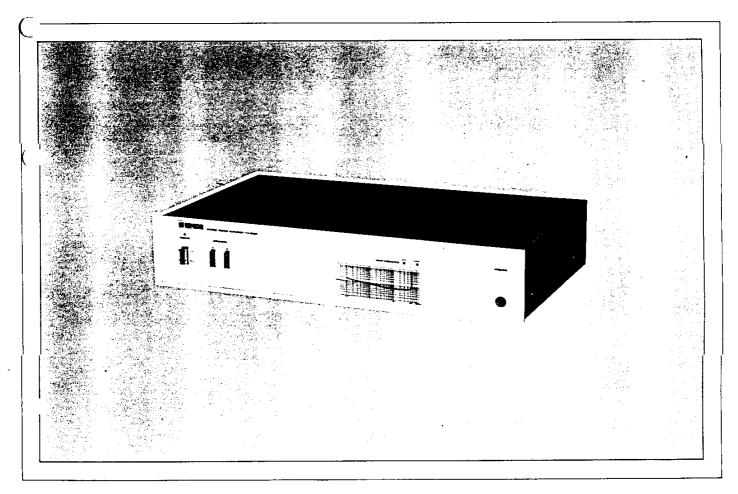
Service Manual

Stereo Power Amplifier

MODEL TM2550





1. SPECIFICATIONS

Power Output 50 Watts per channel at 4 ohms	Signal to Noise Ratio (IHF-A) 110 dB
from 20 to 20,000 Hz, both	Power Supply AC 220/240 Volts 50 Hz
channels driven 0.08% T.H.D.	Dimensions 430(W) x 80(H) x 250(D) mm
Damping Factor at 1 kHz 4 ohms	Weight
Frequency Response (-1.5 dB) 5 to 60 Hz	_

Subject to change without notice,

2. DISASSEMBLY INSTRUCTIONS

(1) Top cover removal

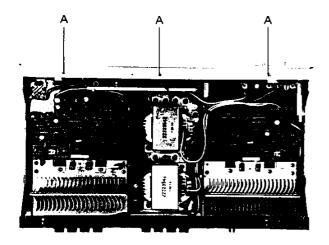
Remove four screws on the both sides of the set and lift up the top cover.

(2) Bottom cover removal

Remove a screw on the center of the bottom cover and lift the bottom cover.

(3) Front panel removal

Remove six screws (A) from the top and bottom as shown in Figures 1 and 2, and the front panel with push buttons can be removed.



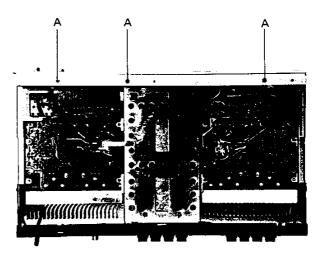


Figure 1

Figure 2

3. ALIGNMENT INSTRUCTIONS

IDLE CURRENT TEST EQUIPMENTS

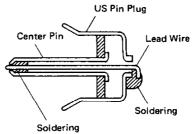
- (1) VTVM (DC).
- (2) Short pin plugs (Accessories of pre-amplifier or Figure).

NOTE:

(1) Align after five minutes when power has been supplied.

ALIGNMENT (For alignment point, See Figure 5.)

- (1) Connect test equipments as shown in Figure 3.
- (2) Short the input terminal with short pin plugs.
- (3) Adjust the SVR501 (L ch), and SVR502 (R ch) as the VTVM indicates 16.5 ±3mV DC.



SHORT PIN PLUG

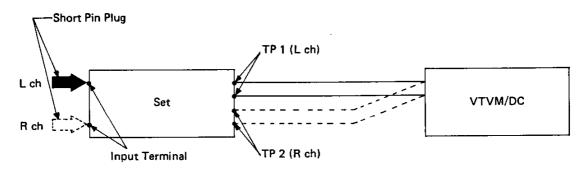


Figure 3

PEAK INDICATION

TEST EQUIPMENT

- (1) AF oscillator
- (2) VTVM (AC).
- (3) Dummy loads (4 ohms above 250W).

NOTE:

(1) Don't short the speaker terminals.

FOR SERVICE MANUALS CONTACT:

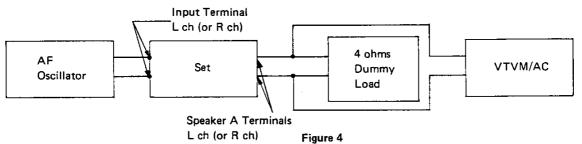
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FAX: 01844 - 352554

ALIGNMENT (For alignment point, See Figures 5 and 6.)

- (1) Set the speaker selectors to SPEAKER A position.
- (2) Connect test equipment as shown in Figure 4.
- (3) Adjust the SVR701 (L ch) or SVR702 (R ch) to turn on the peak indicator at 14.14V (50W) on VTVM.



ALIGNMENT POINTS

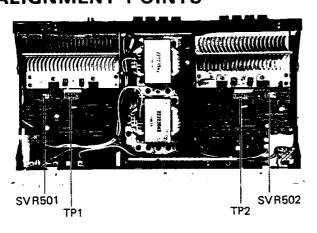


Figure 5

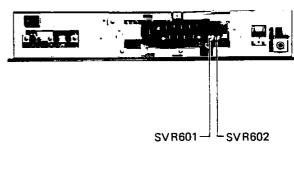


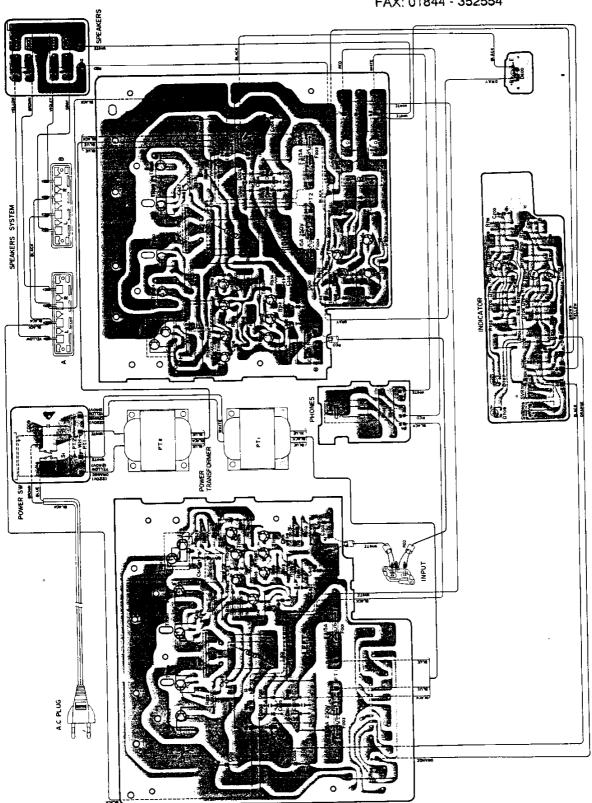
Figure 6

4. PRINTED CIRCUIT BOARD BOTTOM VIEW AND WIRING

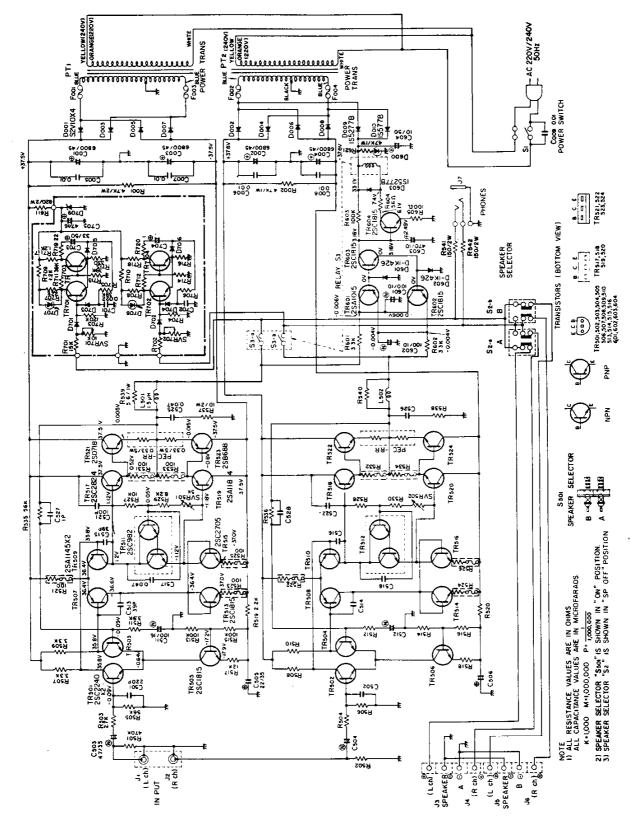
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MAURITRON TECHNICAL SERVICES

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5. SCHEMATIC DIAGRAM



6. EXPLODED VIEW AND PARTS LIST FOR SERVICE MANUALS CONTACT: MAURITRON TECHNICAL SERVICES **EXPLODED VIEW** www.rnauritron.co.uk TEL: 01844 - 351694 FAX: 01844 - 352554

FOR SERVICE MANUALS CONTACT:

MAURITRON TECHNICAL SERVICES

PARTS LIST ELECTRICAL PARTS

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ELECTRIC	,	· · · · · · · · · · · · · · · · · · ·	FAX: 0184	4 - 352554	
Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
	TRANS	ISTORS & DIODES	TR523	36625336	2SB688-R
	Symbol No.	with TR: Transistor	L TR524	36625336	2SB688-R
	Symbol No.	with D: Diode	TR601	3653404A	I t
┌ TR501		2SC2240-BL1	or TR601	36524060	2SA1015-GR
TR502		2SC2240-BL1	TR602	36317480	2SC1815-BL
TR503	36325846		TR603	36317480	2SC1815-BL
└ TR504	36325846	2SC2240-BL1	TR604	36317480	2SC1815-BL
or			TR701	36317480	2SC1815-BL
┌ TR501	36325847	2SC2240-BL2	TR702	36317480	2SC1815-BL
TR502	36325847	2SC2240-BL2	TR703	36317480	
TR503	36325847	2SC2240-BL2	TR703	36317480	2SC1815-BL
└ TR504	36325847	2SC2240-BL2	11704	36317460	2501815-80
or _ TR501	36325848	2SC2240-FL3	D001	22115564	S2V10-X
TR502	36325848	2SC2240-BL3	D002	22115564	S2V10-X
TR503	36325848	2SC2240-BL3	D003	22115564	S2V10-X
L TR504	36325858	2SC2240-BL3	D004	22115564	2SV10-X
TR505	36217480	2SC1815-BL	D005	22115564	S2V10-X
TR506	36317480	2SC1815-BL	D006	22115564	S2V10-X
┌ TR507	36540510	2SA1145-0	D007	22115564	S2V10-X
TR508	36540510	2SA1145-0	D008	22115564	2SV10-X
TR509	36540510	2SA1145-0	D009	3797380	1S5277B
TR510	36540510	2SA1145-0	D010	3798380	1S5277B
TR515	36334810	2SC2705-O	D600	22116532	GL2PR1
L TR516	36334810	2SC2705-O	D601	22115415	1K426A
or			D602	22115415	1K426A
☐ TR507	36540520	2SA1145-Y	D603	37978380	1S5277B
TR508	36540520	2SA1145-Y	D701	1	1S1555V-TP-3
TR509	36540520	2SA1145-Y	D702		1S1555V-TP-3
TR510	36540520	2SA1145-Y	D703	37246725	_
TR515	36334820	2SC2705-Y	D704	37246725	1S1555V-TP-3
L TR516	36334820	2SC2705-Y	D705		1S1555V-TP-3
TR511	36753140	2SC982-TM	D706		
TR512	36753140	2SC982-TM	D707	22115632	
TR513	36317480	2SC1815-BL	D708	22115632	
TR514	36317480	2SC1815-BL	D709	22115563	RD13E-B3
┌ TR517	36339512	2SC2824-O			
TR518	36339512	2SC2824-O			
TR519	36542252	2\$A1184-0			
TR520	36542252	2SA1184-O			ADACITODO
TR521	36845859	2SD718-O		C.	APACITORS
TR522	36845859	2SD718-O			PF, J: ±5%, K: ±10%, M: ±20%,
TR523	36625360	2SB688-O			+80 to -20%, G: ±20%
L TR524	36625360	2SB688-O	(10): 100	onpolarity ty	pe
or	00000		C001	22440324	Electrolytic 6800 mfd/45WV, P
TR517	36339522	2SC2824-Y	C002	22440324	Electrolytic 6800 mfd/45WV, P
TR518	36339522	2SC2824-Y	C003	22440324	Electrolytic 6800 mfd/45WV, P
TR519	36542262	2SA1184-Y	C004	22440324	Electrolytic 6800 mfd/45WV, P
TR520	36542262	2SA1184-Y	C005	22342103	Ceramic 0.01 mfd, Z
TR521	36845836	2SD718-R	C006	22342103	Ceramic 0.01 mfd, Z
TR522	36845836	2SD718-R			

5)

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
C007	22342103		R511	22750532	Metal Oxide 3.9K ohm ¼W, G
C008	22342103		R512		Metal Oxide 3.9K ohm ¼W, G
C009	22340154	Ceramic 0.01 mfd, 400V, P	R513	22543104	
C501	22361221	Ceramic 220 pF, K	R514	22543104	
C502	22361221	Ceramic 220 pF, K	R515	22543104	
C503	22403080	Electrolytic 4.7 mfd/35WV(N)	R416	22543104	
C504	22403080	Electrolytic 4.7 mfd/35WV(N)	R517	22543123	12K ohm •
C505	22447220	Electrolytic 22 mfd/35WV, P	R518	22543123	12K ohm
C506	22407220	Electrolytic 22mfd/35 WV, P	R519	22543222	2.2K ohm
C511		Electrolytic 100 mfd/16WV(N)	R520	22543222	2.2K ohm
C512	22403082		R521	22500233	
C513	22361390	Ceramic 39 pF, J	R522	22500233	Fusible 100 ohm, ¼W, J
C514	22361390		R523	22500233	Fusible 100 ohm, ¼W, J
C515	22361390	· •	R524	22500233	Fusible 100 ohm, ¼W, J
C516		Ceramic 39 pF, J	R524	22500233	Fusible 100 ohm, ¼W, J
C517	22342473	Ceramic 0.047 mfd, Z	R525	22500233	Fusible 100 ohm, ¼W, J
C518 C521	22342473	•	R526		Fusible 100 ohm, ¼W, J
4	22361101		R527	22543103	10K ohm
C522 C525	I	Ceramic 100 pF, K	R528	22543103	10K ohm
C525	I	Ceramic 0.047 mfd, Z	R529	22543822	8.2K ohm
C527	22342473		R530		8.2K ohm
C527		Ceramic 1 pF, D	R531		Fusible 100 ohm, ¼W, J
C601		Ceramic 1 pF, D	R532		Fusible 100 ohm, ¼W, J
C602	22403082 22403082	Electrolytic 100 mfd/16WV(N)	R533		Fusible 100 ohm, ¼W, J
C603		Electrolytic 100 mfd/16WV(N)	R534		Fusible 100 ohm, ¼W, J
C604		Electrolytic 470 mfd/10WV, P	R535		Metal Oxide 56K ohm, ¼W, G
C701		Electrolytic 10 mfd/50WV, P Ceramic 0.022 mfd, Z	R536		Metal Oxide 56K ohm, ¼W, G
C702			R537	1	Metal Oxide 10 ohm, 2W, J
C703	1	Ceramic 0.022 mfd, Z Electrolytic 3.3 mfd/50WV, P	R538	1	Metal Oxide 10 ohm, 2W, J
C704		Electrolytic 3.3 mfd/50WV, P	R539	1	Metal Oxide 5.6 ohm, 1W, J
C709		Electrolytic 3.3 mfd/50WV, P	R540	i I	Metal Oxide 5.6 ohm, 1W, J
	22.770000	2.5 ma/5044 V , P	R541	1 1	Metal Oxide 150 ohm, 2W, J
			R542 R601	1	Metal Oxide 150 ohm, 2W, J
			R602	22543332 22543332	3.3K ohm 3.3K ohm,
	İ		R603	22543332	1
	R	ESISTORS	R604	22543164	56 ohm
All fixed re		/8W, ±5%, carbon resistor unless	R605	22543560	100 ohm
otherwise r		, , , , , , , , , , , , , , , , , , , ,	R611	1 ;	
Tolerance:	G: ±2%, J:	±5%, K: ±10%	R621	I I	Metal Oxide 820 ohm, 2W, J Metal Oxide 4.7K ohm, 1W, J
P001	22572472	Motel Ovide 4 7K - L OM L	R701	22543153	15K ohm
		Metal Oxide 4.7K ohm, 2W, J	R702	22543153	15K ohm
	22543474	Metal Oxide 4.7K ohm, 2W, J	R703	1	120K ohm
	22543474		R704		120K ohm
	22543474		R705	22543393	39K ohm
	22543272	2.7K ohm 2.7K ohm	R706	22543393	39K ohm
	22543272	1	R707	22543222	2.2K ohm
	22543563	56K ohm 56K ohm	R708	22543222	2.2K ohm
	22543332	3.3K ohm	R709	22543122	1.2K ohm
_	22543332	3.3K ohm	R710	22543122	1.2K ohm
	22543332	1.3K ohm	R711	22543393	39K ohm
I		3.3K ohm	R712	22543393	39K ohm
	22070002	O.O. OHIII	R713	22543393	39K ohm
l					

	· · · · · · · · · · · · · · · · · · ·	
Symbol No.	Part No.	Description
R714	22543393	39K ohm
R715	22543331	330 ohm
R716	22543331	330 ohm
R717	22543122	1.2K ohm
R718	22543122	1.2K ohm
R719	22543220	22 ohm
R720	22543220	22 ohm
SVR501	22658471	Semi-Fixed 5K ohm
SVR502	22658471	Semi-Fixed 5K ohm
SVR701	22658454	Semi-Fixed 10K ohm
SVR702	22658454	Semi-Fixed 10K ohm
	MIS	CELLANEOUS
L501	22211220	Choke Coil, AF
L502	22211228	Choke Coil, AF
S1	22140624	Push Switch (Power)
S2	22140640	Push Switch (Speaker Selector)
J1, 2	22163765	US2P Jack
J1, 2 J3, 4	22163765	4P Terminal
	22161517	4P Terminal
J5, 6	22161517	Jack 6.5¢
J7	22103/19	Jack 0.00
E001 A:004	22144262	Fuse 3.15A S
1001.4004	1	Fuse Holding Terminal
PT1, PT2	22223542	9
111,514	1	Power Transformer (UK)
D1 1		Power Cord (Europe)
P1-1 P1-2	22170550	Power Cord (UK)
1 1- 2	22177001	. 533. 55.4 (510)
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		Ø1844 - 35 255 4

EXPLODED VIEW PARTS

Symbol No.	Part No.	Description
301	20015820	Chassis
302	20735705	Bracket
303	20735697	Power Tranformer Bracket
304	20848603	Cabinet
305	20711680	Panel Assembly
306	22193225	P.C. Board, Indicator
307	20748675	Push Button
308	20874676	Push Button
309	22776666	Push Spring
310	22756528	Cushion
311	22832826	Bottom Cabinet
312	20842649	Foot
313	20015836	Back Chassis
314	22754791	Cord Clamper
315	22184183	Cord Clamper
316	22193226	LED P.C. Board
317	22993614	Band
317	22755516	Clamper Lug
		Radiator
319	22748840	Shield Plate
320	22748858	Cushion
321	22756983	
322	20747631	P.C. Board Holder
324	22193259	·
325	20746920	Transistor Holder
326	22193217	AF P.C. Board (Left)
327	22193218	AF P.C. Board (Right)
328	22193258	P.C. Board, Switch
329	22193160	P.C. Board, Headphone
330	20754825	Earth Joint
	SCRE	WS & NUTS
N1	70433008	Bind Head 3.0 x 8 mm
N2	22701757	Bind Head 3.0 x 6 mm
N3	22701716	Bind Head 3.0 x 14 mm
N4	20795955	Bind Head 3.0 x 6 mm with SW
N6	72633066	Bind Head Tapping 3.0 x 6 mm
N7	72633008	Bind Head Tapping 3.0 x 8 mm
N10	22701724	Bind Head Tapping 3.0 x 10 mm
N11	20795992	Pan Head 3.0 × 8 mm with W
N12	70443006	Flat Head 3.0 x 6 mm
N13	73653000	Nut 3.0¢
N13 N19	22701790	Bind Head Tapping 4.0 x 6 mm
N22	20795908	Pan Head Tapping 3.0 x 8 mm
INZZ	20795906	with W
	AC	CESSORIES
	22953955	Owner's Manual
	22951862	Warranty Card
	22001002	